

In the Claims

Applicant has submitted a new complete claim set showing marked up claims with insertions indicated by underlining and deletions indicated by strikeouts and/or double bracketing.

Please rewrite the claims as shown below.

1. (Original) An electrolyte comprising an electrolyte composition and a matrix polymer,

wherein the matrix polymer is a polymer formed by polymerization of a first compound having at least two isocyanate groups and a second compound having at least two nucleophilic groups containing active hydrogen.
2. (Original) The electrolyte according to Claim 1, wherein the electrolyte composition comprises a solvent to form a gel electrolyte.
3. (Original) The electrolyte according to Claim 1, wherein the electrolyte composition comprises no solvent to form a solid electrolyte.
4. (Original) The electrolyte according to Claim 1, wherein the electrolyte composition comprises an ionic liquid to form a gel electrolyte.
5. (Original) The electrolyte according to Claim 1, wherein the electrolyte composition comprises a redox couple.

6. (Currently Amended) The electrolyte according to Claim 5, wherein the redox couple is ~~[[the]]~~ a combination of a halogen ion and a halide ion.

7. (Currently Amended) The electrolyte according to Claim 6, wherein ~~[[the]]~~ a halogen ~~element~~ portion of the redox couple is iodine.

8. (Currently Amended) A photocell comprising: a semiconductor layer composed of semiconductor particles carrying a dye and an electrolyte layer, the layers being provided between a counter electrode and an electrode formed on a surface of a substrate~~[[,]]~~;

wherein the electrolyte layer has a redox couple, an electrolyte composition, and a matrix polymer~~[[,]]~~; and

wherein the matrix polymer is a polymer formed by polymerization of a first compound having at least two isocyanate groups and a second compound having at least two nucleophilic groups containing active hydrogen.

9. (Original) The photocell according to Claim 8, wherein the substrate is a transparent substrate.

10. (Currently Amended) A method for manufacturing a photocell comprising ~~the steps~~ ~~of~~:

injecting a mixed solution between a counter electrode and an electrode formed on a surface of a substrate, the mixture containing a first compound having at least two isocyanate groups, a second compound having at least two nucleophilic groups containing active hydrogen,

and an electrolyte composition having a redox couple;

and polymerizing the first compound and the second compound.

11. (Currently Amended) The method for manufacturing a photocell, according to Claim 10, further comprising ~~the step of~~ forming a semiconductor layer, composed of semiconductor particles carrying a dye, between the electrode and the counter electrode.

12. (Currently Amended) The method for manufacturing a photocell, according to Claim 10, wherein the polymerizing ~~polymerization~~ is performed in accordance with ~~[[the]]~~ Michael addition reaction.

13. (Original) The method for manufacturing a photocell, according to Claim 10, wherein the electrolyte composition has a redox couple.

14. (Currently Amended) A method for manufacturing a photocell comprising ~~the steps~~ of:

forming a semiconductor layer composed of semiconductor particles carrying a dye between a counter electrode and an electrode formed on a surface of a substrate;

applying a first compound having at least two isocyanate groups and a second compound having at least two nucleophilic groups containing active hydrogen; and

polymerizing the first compound and the second compound.